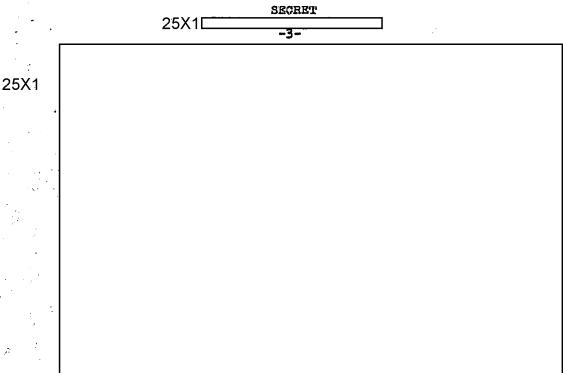
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Observations - Zavod #1, Podberesje

General (a)

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the Junkers Plant at Dessau, took up operations again first few months were entirely devoted to cleaning the plant of rubble, salvaging old machines, mending some of the buildings which were not damaged beyond repair, and generally preparing the plant for the resumption of production. The plant was ready to resume production in the spring of 1946. The Soviets gave the plant the assignment to continue the development of the two types of planes which were under construction at the end of World War II: the EF-126 and the JU-287.

In September,

When the Soviets dismantled the plant in summer 1946, they removed not only the machines and machine tools, but also took all metals which were stored in the plant. They even shipped the entire supply of drawing paper to the USSR. The wind tunnel which was installed at Dessau was completely dismantled, leaving only the maronry; the tunnel was taken to Podberesje where it was dumped in an open field and left rotting.

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- (3) The Junkers personnel, consisting of all types of engineers, draftsmen and mechanics, were deported to Podberssje on 22 Oct 46. There was an old aircraft Podberesje on 22 Oct 46. There was an old aircraft plant at Podberesje, which had been destroyed by the Germans and which had been completely stripped of equipment. Two seaplanes were moored at the pier of the plant on the "Moscow Sea". The first months of the work at Podberesje were devoted exclusively to the effort of re-equipping the plant. usually worked in one department at a time and, as soon as the rooms were finished, the department which was assigned to the rooms took up operations there.
- assigned to the rooms took up operations there.
- The departments were staffed mainly by Germans. Even the leading positions of the individual departments were held by Germans. The Soviets were in the minority (4) in all departments, and were generally assigned to sub-ordinate jobs. There was no separation between Soviet and German personnel within the departments.
- The Soviet personnel seemed to be narrowly specialized in their knowledge.
- 25X1 the Soviet workers had been sent to Fodberesje to improve their knowledge of aircraft design and building.

 doubt that they had an opportunity to get a better insight into plane construction from the operations of
- 25X1 the Podberesje plant, because the departments of the plant were highly specialized and it was strictly forbidden for members of one department to show interest in the operations of any of the other departments.

(b) **EF-130**

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25X1 The first type of plane at Podberesje was the JU-287, which was given the type number EF-130. The only variation from the JU-287 was the use of Mikulin engines instead of the Junkers engines which were installed in the JU-287. The EF-130 is a shoulder wing type with swept forward wings and positive dihedral. The six turbo-jet engines were arranged in pods of three, mounted mid-span under each wing. The landing gear consisted of one dual wheel in the mid-section of the fuselage, with one auxiliary gear in the nose, and an auxiliary gear on the tip of each wing. The horizontal stabilizers were located at the bottom of the vertical.

(c) <u>RF-131</u>

In 1948, the Soviets gave the Junkers Group an assignment to start construction of a new type airplane which they called the EF-131. This type was only a variation of the EG-130; the only differences were:

- Two mid-span mounted Mikulin jet-engines, in-stead of the six engine configuration.
- (2) The horizontal stabilizers were moved up to the middle of the vertical.
- (3) Slight changes of the armament.

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(4) EF-140

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In the beginning of 1950. The Junkers Group was given the assignment of designing a new plane, called the RF-140. This plane showed considerable variation from the two previous types. It was a larger plane with two midmounted Mikulin turbe-engines. The wings which were swept backward showed a break both in the plan and in the front view.

25X1 View. Comment: 25X1

The horizontal

the mock-up and some finished parts, the cockrpit, and the landing gear,

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Theobald (fnu) was project engineer on this airplane. He

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was still working on it in September 1950.

(e) Stress and Weight Department

The section of the Junkers Stress Department

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was assigned to the analysis of the fuselage section
between the occkpit and the bomb bay. The entire static
department was under the direction of Dipl Ing Walsel, who
was an authority on stress analysis and the author of
tables which gave the properties of various metals. The
weight analysis group's work was directed by Dipl Ing
Lammel, and Dipl Ing Raaseh was chief of the air load
analysis group. While Dipl Ing Walzel was in charge of the
technical part of the Static Department, Dipl Ing Waldemar
Guenther directed the organization and work distribution of
the department.

(f) Load Factors Used in Stress Calculation

The calculation of the tensile strength of the various parts was done in the following manner. The air loads for various flight conditions were established for every part of the air-plane. The air load for the most critical condition was taken and multiplied by 1.8 and sometimes by 2.0 to get the plimate load to which the part was designed.

(g) Soviet Materials

(Tests of metals were made in the metallurgical department.)
The designers were given lists of Soviet metals which
save the specifications as to weight, strength, etc. They
chose the metals from this list only. It occasionally
happened that the needed metals were not listed; in that
case, the designer either had to make a special search for
such metals, use metals which were dismantled from German
plants, or try to get the Soviets to requisition material
out of the current production of another plant. In general,
the tensile strength of the metals was not so great a
problem as the forging or welding qualities. When the
available metals could not be forged, the designers tried
to improvise by using welded assemblies — sometimes with
success and sometimes not. In some cases, the strength of
a joint could be increased by using thicker skin to reduce
the stresses in the fitting.

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(h) Morking Conditions

- (1) The pressure of work was great in Podberesje. In the first place, there was a spirit of ambition among the Germans to show the Soviets the quality of their work. In the second place, the Soviets kept referring to "another aircraft factory" where German personnel were also employed and which was "far ahead" of Zavod #1 operations and developments.
- (2) The security at Podberesje was very strict.
 It was dangerous to enter a department other than one's own without having a valid excuse. The papers on which the Junkers Group had their calculations, were numbered and collected every evening in a metal box, which was handed to the Head of the First Department, Jurshin. When they handed in their boxes in the evening, they were given a number which would identify their box on the following morning. Checks were made on the contents of their boxes.

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